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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,570	10/08/2004	Alessandro Morelli	6391/PCT	9019
6858 7590 10/19/2007 BREINER & BREINER, L.L.C. P.O. BOX 320160 ALEXANDRIA, VA 22320-0160				
			EXAMINER TAWFIK, SAMEH	
			ART UNIT 3721	PAPER NUMBER
			MAIL DATE 10/19/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/510,570	Applicant(s) MORELLI ET AL.	
	Examiner Sameh H. Tawfik	Art Unit 3721	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 September 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
- 4a) Of the above claim(s) 26-29 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banks (U.S. Patent No. 3,229,974) in view of DuFresne (U.S. Patent No. 4,521,209).

Banks discloses a folding machine to fold a web material along transverse folding lines comprising at least one folding roller (Figs. 1 and 2; via folding rollers 27 and 28) provided with at least one gripping member (via 34 and 37) to mechanically grasp the web material along a folding line (Fig. 1).

Banks does not disclose that a gaseous flow member constructed and arranged to generate a gaseous flow, which inserts the web material into the gripping member. However, BuFresne discloses a similar folding machine comprising a gaseous flow member (Fig. 1; via vacuum ports 36 and 34 all around the surface of the rollers) to fold the web.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified Banks's folding machine by having a gaseous flow member around the whole surface of the folding cylinder, which in such case a vacuum port will be adjacent to one of Banks's grippers, as suggested by DuFresne, in order to grasp strongly and gently to the web while been folded.

Regarding claim 2: DuFresne discloses that the gaseous flow member is a suction member.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified Banks's folding machine by having a gaseous flow member being a suction member, as suggested by DuFresne, in order to grasp strongly and gently to the web while been folded.

Regarding claim 3: Banks discloses two counter rotating folding rollers (via 27 and 28) with parallel axes, each of the counter rotating rollers being provided with at least one gripping member (via 34 and 37).

Regarding claims 4 and 19: DuFresne discloses that the suction member is associated with a device to activate and deactivate suction as a function of an angular position of a respective folding roller (column 3, lines 5-9 and Fig. 14).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified Banks's folding machine by having a gaseous flow member with suction member being associated with a device to activate and deactivate suction as a function of an angular position of a respective folding roller, as suggested by DuFresne, in order to grasp strongly and gently to the web while been folded.

Regarding claims 5 and 6: Banks discloses that the at least one gripping member comprises a movable element (via 34 and 37) cooperating with a first stop (Fig. 2; via surface 42) and second stop (via surface 33); the first stop and second stop defining a slit essentially parallel to an axis of rotation of a respective folding roller of the at least one folding roller (Figs. 1 and 2), the movable element (34) extending in the slit.

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Regarding claim 7: Banks discloses that each of the at least one folding roller comprises at least one cavity substantially parallel to an axis of rotation and opens on a cylindrical surface of the folding roller inside which a respective gripping member is housed (via gripping member 34 inside cavity on the folding roller).

Regarding claims 9 and 10: Banks discloses that a first block defining the first stop is fixed in the cavity (via portion of surface 42, could be consider as block) and a second block defining the second stop (via 33).

Regarding claim 11: Blanks nor DuFresne disclose that the first block delimits a suction compartment in connection with the suction duct. However, as Dufresne discloses the use of suction duct and holes to fold a web. An exact location of such suction on the block or other place, is just a matter of engineering design choice.

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have modified Blanks folding machine, by having suction means located on Blank's block, as suggested by DuFresne, in order to grasp strongly and gently to the web while been folded.

Regarding claim 12: Blanks discloses that the movable element (34) is supported by a shaft (via shaft 41) oscillating around its longitudinal axis, supported in the cavity and wherein the first block (via 42) has a sealing surface cooperating with the oscillating shaft (41), see for example (Figs. 1 and 2).

Regarding claim 13: Blanks discloses that each of the at least one gripping member include an elastic strip (via rubber jaw 34).

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Regarding claim 14: Blanks discloses that the elastic strip is integral with the oscillating shaft and cooperates with the first stop, see for example (Figs. 1 and 2).

Regarding claims 15-18, 20, and 21: Blanks discloses that each of the counter rotating folding rollers is associated with a sliding block disposed on a front surface of the respective folding roller (via body of the gripper 34 and block 47); the sliding block (47) is disposed in a specific angular position adjustable with respect to the respective folding roller (via spring 50 and shaft 41).

Regarding claim 22: Blanks discloses that a cutting unit (via cut rollers 2 and 3) to cut the web material.

Regarding claim 23: Blanks discloses that the cut unit has two counter rotating cylinders (via 2 and 3) with axes parallel to each other and to the folding roller (Fig. 1); which define between them a nip through which the web material is fed and provided with blades and counter blades to cut the web material (Fig. 1).

Regarding claim 24: Blanks discloses that at least one folding roller (27) cooperates with a counter roller (28) on which a projection (via 38) is provided extending parallel to the axis of the rollers (Figs. 1 and 2).

Regarding claim 25: Blanks discloses that the corresponding projection (38) is provided on each of the at least one folding roller, each projection of one of the at least one folding roller cooperating with a gripping member of the opposite folding roller, see for example (Fig. 1).

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Conclusion

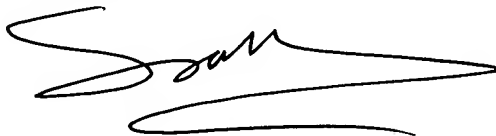
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sameh H. Tawfik whose telephone number is 571-272-4470.

The examiner can normally be reached on Tuesday - Friday from 9:00 AM to 7:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi Rada can be reached on 571-272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sameh H. Tawfik
Primary Examiner
Art Unit 3721



ST.